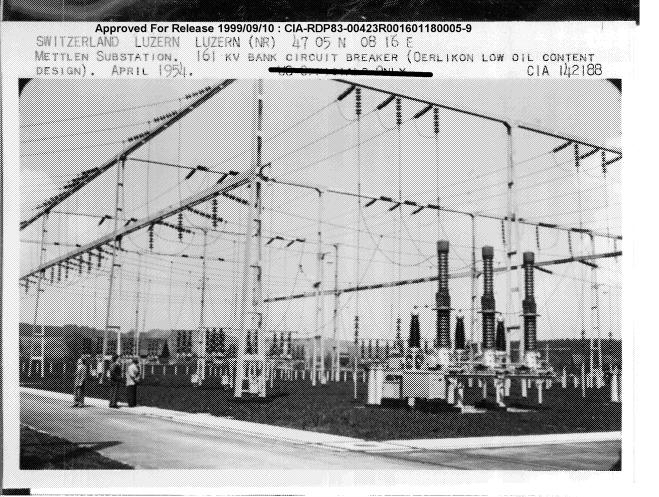
25X1A2g

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25X1A2g

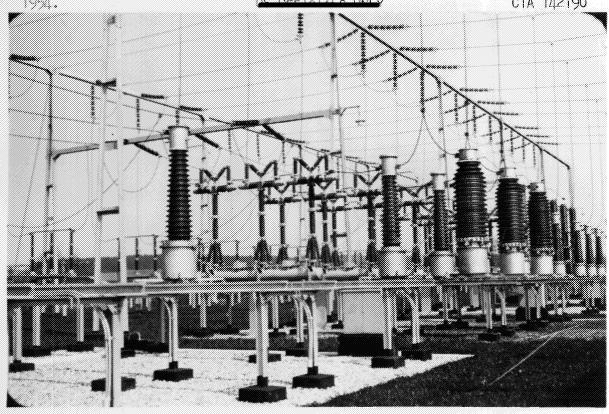


Mettlen Substation near Lucerne, Switzerland.
161 kv bank circuit breaker. Breaker is
Cerlikon low oil content design.
161 kv cable termination is small brown
bushings behind circuit breaker and on
same structure with it.

25X1X6

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SWITZERLAND LUZERN LUZERN (NR) 47 05 N 08 16 E
METTLEN SUBSTATION. 220 KV SWITCHBEAR. BROWN-BOVERI AIRBLAST CIRCUIT
BREAKER, CENTER. DERLIKON, LOW OIL CONTENT CIRCUIT BREAKER, RIGHT. APRIL
1954. CIA 142190

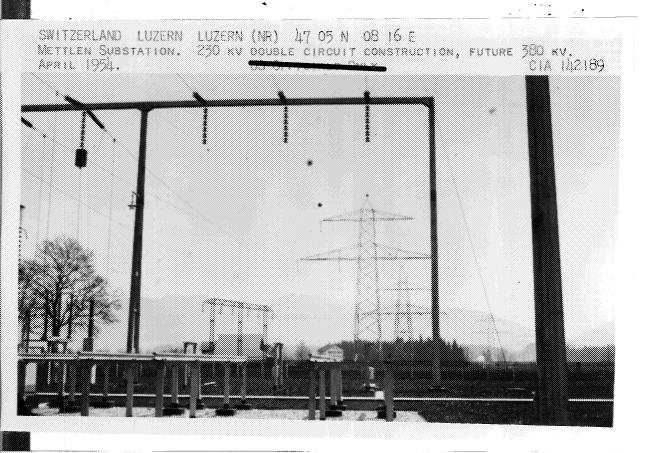


Mettler Substation near Lucerne, Switzerland 220 kv switchgear - current and potential transformers,

Brown-Boveri airblast circuit breaker (with "M" on top) in center

Oerlikon - low oil content circuit breaker

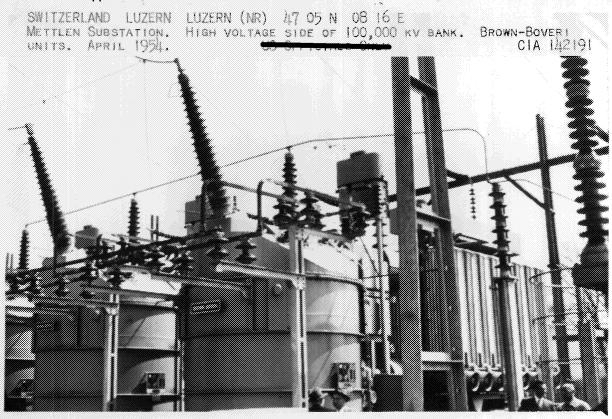
25X1X6 (with red paint top and middle) at right.



Mettlen Substation near Lucerne, Switzerland. 230 kv double circuit construction, future 380 kv.

Note absence of deadend on line. Back of substation structure is guyed to take load.

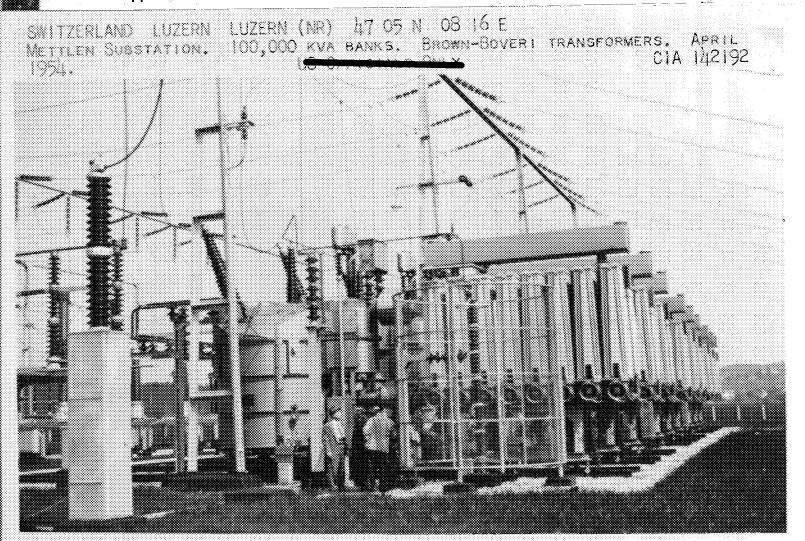
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Mettlen Substation near Lucerne, Switzerland & High-voltage side of 100,000 kv bank (3 single-phase units).

230Y-171Y-27.56 delta kv, Brown-Boveri units.

Note radiators banked separate from transformer case.



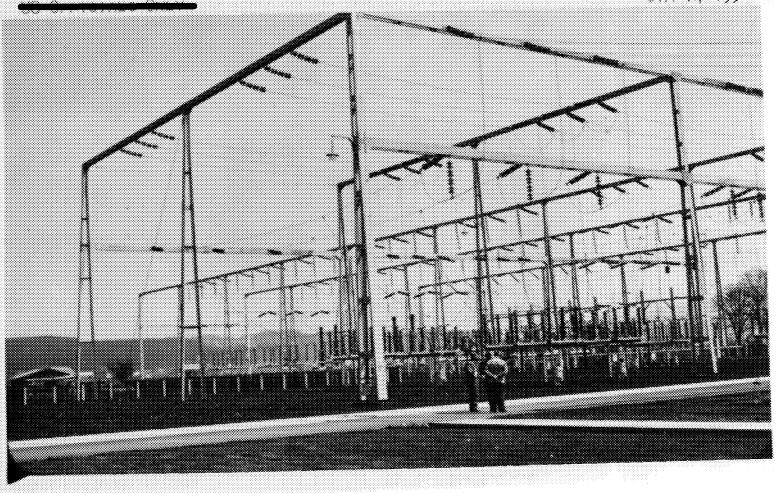
Mettlen Substation near Lucerne, Switzerland
Three 100,000 kva banks, 230Y-171Y-27.56
delta (9 single-phase units)
171 kv connection is cable termination in:
transformer.
High-voltage bushing is 380 kv as banks are

High-voltage bushing is 380 kv as banks can be reconnected for this voltage. Tap changing under load in 171 kv winding. Brown-Boveri transformers. Note radiators banked separate from transformer case.

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SWITZERLAND LUZERN LUZERN (NR.) 17 05 N 08 16 E Wettlen Sunstation, 161/270 kv yard, April 1954.

CIA 142193



25X1X6

Mettlen Substation near Lucerne, Switzerland. 161/230 kv yard. Note guys on structure to carry line tension from opposite side.



Lavey Hydro Plant near St. Maurice, Switzerland, on Rhone River City of Lausanne System Part of Switchyard.



Lavey Hydro Plant near St. Maurice, Switzerland, on Rhone River City of Lausanne System Units installed in rock cavern. Taken

25X1X6

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Lavey Hydro Plant near St. Maurice, Switzerland, on Rhone River City of Lausanne System City of Lausanne bystem

Double circuit transmission line and part

25X1X6 of switching structure. 25X1X6

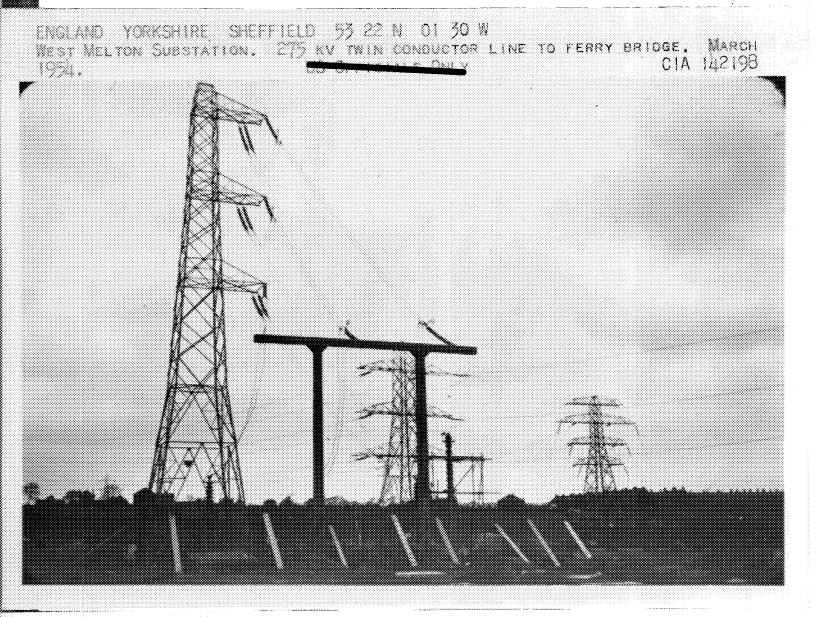


West Melton Substation (Sheffield, Ting.)

Double Circuit - 275 kv twin conductor

line on left. 25X1X6

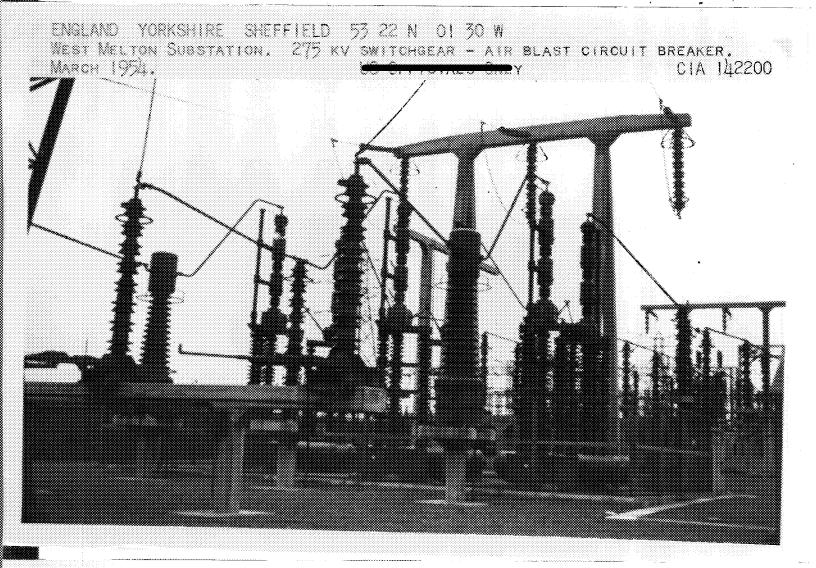
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West Melton Substation (Sheffield, Eng.)
British Electricity Authority
New 275 kv Twin Conductor Line to Ferry
Bridge
Note reinforced concrete structure in
foreground. 25X1X6



West Melton Substation (Sheffield, Eng.)
British Electricity Authority
275 kv busses. Airblast circuit breaker
in background.



West Melton Substation (Sheffield, Eng.) / 275 kv switchgear - air blast circuit breaker.

Note use of reinforced concrete structures in place of steel. 25X1X6

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Approved For F	e15월58 1999/09/10 : CIA-RDF8	3-56423R001601180005-9	SECRET	
	ROUTING AND	CONTROL RECORD		
	DO NOT DETACH FROM	'ON LOAN' DOCUMEN	NTS	
	<u>6 Octob</u>	er 1954 DATE		
	TO: GRAPHICS REGISTER		:	
	BUILDING	ROOM NO.		
	TITLE 13 Black and White Ph	otographs		
	and	25X1	A2g	
	2	25X1A2g		
	REMARKS			
			:	
	DOCUMENT(S) MUST	DN LOAN BE RETURNED TO	400	25X1A8a
	FOR RETENSION BY (DEADLINE) BY ADDRESSEE			25X1A9a
	FROM: BUILDING	ROOM NO. EXTENS	ION	25X1A8a
	Quarters Eye	1 1	676 ·	

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